

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11)Publication number: 1020030050989 A
(43)Date of publication of application: 25.06.2003

(21)Application number: 1020010081780
(22)Date of filing: 20.12.2001

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(51)Int. Cl G01N 1 /28

(54) METHOD FOR SEPARATING OR FILTERING TEST SAMPLE ON BIO-CHIP BY USING CARBON NANO-TUBE

(57) Abstract:

PURPOSE: A method for separating or filtering a test sample on a bio-chip is provided to prevent the test sample from being contaminated by separating or filtering the test sample in a micro-sized channel or chamber formed in the bio-chip. CONSTITUTION: A test sample is provided in a sample loading section on a bio-chip. Then, the test sample is introduced into a channel or a chamber connected to the sample loading section. Material contained in the test sample is selectively separated or filtered according to an alignment interval of carbon nano-tubes, which are aligned in the channel or the chamber. The alignment interval of carbon nano-tubes is about few nanometer to hundreds of micrometers. The channel or the chamber has a size in a range about few nanometer to hundreds of micrometers.



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Legal Status

Date of request for an examination (20011220)
Notification date of refusal decision (00000000)
Final disposal of an application (registration)
Date of final disposal of an application (20031022)
Patent registration number (1004088710000)
Date of registration (20031127)
Number of opposition against the grant of a patent ()
Date of opposition against the grant of a patent (00000000)
Number of trial against decision to refuse ()

Express Mail No. EV746681264US

Date of requesting trial against decision to refuse ()